	CONFIDENTIA	AL DACE PD-91	
			2
			2
Attention:			2
Gentlemen:			
which I discussed	oly know, two samples of the with you on my recent visit	t to Washington, were	2
	Material Laboratory, New Yo.  The crystal mounts were to		2 2
tests were carried UG-119/U standard for tangential ser	i out with a Microwave Assocrystal mount. The follownsitivity (power level at was), all readings being db be	ciates 1N23B crystal and a ing results were obtained hich signal plus noise	_
2		AEL Mount	
	UG-119/U	500-1000 Mc/s	
1c <b>/s</b> 500	48	500-1000 Mc/s	
1c/s 500 600	48 48	500-1000 Mc/s 51.5 54	
1c <b>/s</b> 500	48 48	500-1000 Mc/s 51.5 51.5 54.5	
1c/s 500 600 700 800 900	48 48 46 48	500-1000 Mc/s 51.5 51.5 51.5 51.5	
500 600 700 800 900	48 48 46 48	500-1000 Mc/s 51.5 51.5 54.5	
1c/s 500 600 700 800 900 L000	48 48 46 48	500-1000 Mc/s 51.5 51.5 51.5 51.5	
1c/s 500 600 700 800 900 1000	48 48 46 48 48 47•5 <u>UG-119U</u>	500-1000 Mc/s  51.5 51.5 51.5 51.5 51.5 51.5 51.5 51	
16/8 500 600 700 800 900 1000 1100	48 48 46 48 48 47•5	500-1000 Mc/s  51.5 514 514.5 51 57 53  AEL Mount 1000-2000 Mc/s	
1c/s 500 600 700 800 900 1000 1000 1000 1000 1200	48 48 46 48 48 47•5 <u>UG-119U</u> 48•5	500-1000 Mc/s  51.5 51.5 51.5 51.5 57 53  AEL Mount 1000-2000 Mc/s	
16/8 500 600 700 800 900 1000 1000 1000 1000 1000 1000 1000 1000	48 48 46 48 48 47.5 48.5 49 48.5	500-1000 Mc/s  51.5 51.5 51.5 51.5 57 53  AEL Mount 1000-2000 Mc/s  51 53 # 56.5 56.5	
16/8 500 600 700 800 900 1000 1000 1000 1000 1000 1000 1000 1000 1000	48 48 46 48 48 48 47.5  UG-119U  48.5 49 48.5 48.5	500-1000 Mc/s  51.5 51.5 51.5 51.5 57 53  AEL Mount 1000-2000 Mc/s  51 53 # 56.5 56.5	
16/8 500 600 700 800 900 1000 1000 100 100 1200 1300 1400 1500 1600	48 48 46 48 48 47.5 UG-119U 48.5 49 48.5 48.5	500-1000 Mc/s  51.5 51.5 51.5 51.5 52.5 53  AEL Mount 1000-2000 Mc/s  51 53 * 56.5 56.5 51.*	
500 600 700 800 900 1000 1000 1100 1200 1300 1400 1500 1600 1700 1800	48 48 46 48 48 47.5 UG-119U 48.5 49 48.5 48.5	500-1000 Mc/s  51.5 51.5 51.5 51.5 52.5 53  AEL Mount 1000-2000 Mc/s  51 53 * 56.5 56.5 51.*	
600 700 800 900 1000 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900	48 48 48 48 48 48 48 48 48 47 5  48 48 48 48 5 48 5	500-1000 Mc/s  51.5 51.5 51.5 51.5 52.5 53  AEL Mount 1000-2000 Mc/s  51 53 * 56.5 56.5 51.*	
500 600 700 800 900 1000 Freq. Mc/s 1000 1100 1200 1300 1400 1500 1600 1700 1800	48 48 46 48 48 47.5 UG-119U 48.5 49 48.5 48.5	500-1000 Mc/s  51.5 51.5 51.5 51.5 57 53  AEL Mount 1000-2000 Mc/s  51 53 # 56.5 56.5	2
500 600 700 800 900 1000 Freq. 4c/s 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900	48 48 48 48 48 48 48 48 48 47 5  48 48 48 48 5 48 5	500-1000 Mc/s  51.5 51.5 51.5 51.5 52.5 53  AEL Mount 1000-2000 Mc/s  51 53 * 56.5 56.5 51.*	2

		27 Nov 56
(No readings could be merator being fault)	ne taken at 1200, 1600, 17	700 Mc/s due to the
ent in tangential sen	nsitivity is 3.5 db at 500 or the rest of the band. is 2.5 db at 1000 Mc/s, {	Mc/s band, the improve- O Mc/s, 6 db at 600 Mc/s, For the 1000 to 2000 Mc/s 8 db at 1100 Mc/s, and
with Sylvania 1N23b's good uniformity in im- work with any crystal Microwave Associates: which we had tested:	of a lot. Of interest is LN23B behaved exactly like this means that the tuned acturers and is probably	408A's which showed very ry if a tuned mount is to s the fact that the s the Sylvania 1N23b's d mount is good for 1N23b's
he higher frequency	we are at present develop ranges up to and including for demonstration in the	g 10,000 megacycles.
from the Material Lab regardin our crystal	will also receive a report oratory. If you desire as mounts for possible Navy it with you. You may con	ny futher information application we will be

25X1

25X1

25X1



Secretary

Sincerely yours,

